

Abstract

The present invention provides monolithic structural catalysts. The catalysts have a thin wall structure and are advantageous for catalyzing reactions of gaseous fluid or liquid fluid molecules, such as the denitration or selective catalytic reduction (SCR) of nitrogen oxides (NO_x) in combustion flue gases. In an embodiment, the honeycomb-like monolithic structural body includes catalytically active outer peripheral walls and a plurality of catalytically active thin-walled inner partition walls, the thin-walled inner partition walls adapted to enhance fluid flow through the monolithic catalytic body and to increase interaction of the fluid molecules with the catalyst body.

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